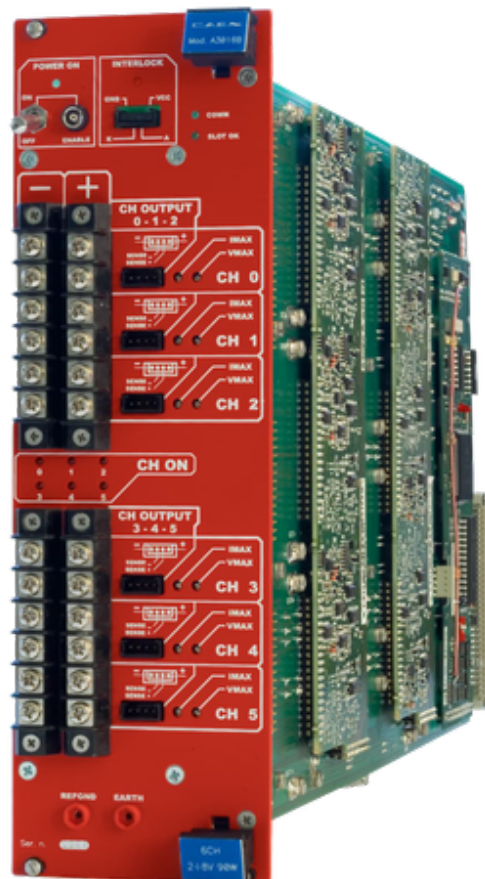
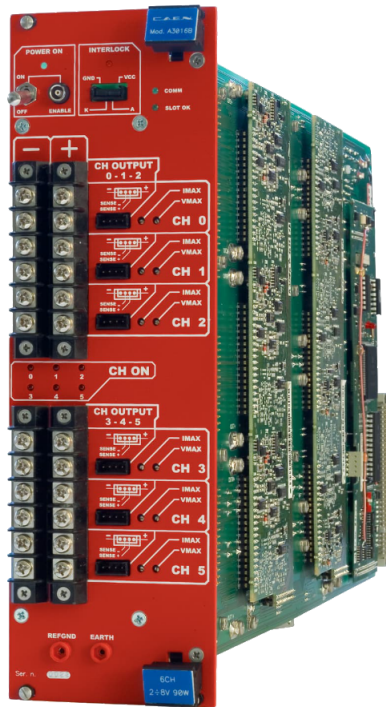


A3016B

6 Channel 8 V / 16 A / 90 W Power Supply Board



Features



- EASY Subsystem Power Supply Module
- Magnetic field and radiation tolerant
- 6 floating 1.5 ÷ 8 V / 16 A channels
- 90 W maximum output power per channel
- VMax and IMax set by trimmer for each channel
- On/Off for each channel
- Channels individually controlled and protected
- Interlock capability
- 48 V Service local and remote on/off
- Screw Lock output connectors

Description

The CAEN **Mod. A3016B** is a 6 Channel 8 V / 16 A Power Supply Board, developed for operation in magnetic field and moderate radioactive environment. One A3016B houses six floating (reversible polarity) 8 V / 16 A / 90 W maximum output power channel. The connector output voltage range is 2 ÷ 8 V with 5 mV monitor resolution; channel control includes various alarms and protections.

Screw lock connector

Conn Header R/A 64pos 2.54mm for Mod. A3016B

Consult our [connectors reference page](#) for technical information.

The board is provided with Remote Sensing Lines to compensate for the voltage drop over the connection cables.

Safety features allows the module to perform as a current generator and includes:

Channels	can be enabled or disabled through the Global Interlock logic.
Overvoltage and Undervoltage warning	when the output voltage differs from the programmed value by more than 3% of voltage full scale range.
Overcurrent detection	When a channel attempts to exceed the programmed current limit, it signalled to be in “overcurrent” and enter in a TRIP status. The output voltage is varied to keep the current below the programmed limit for a programmable TRIP time, then the channel is switched off. If TRIP is set to “constant current mode”, the channel behaves like a current generator.
Hardware VMAX and IMAX	Maximum output voltage and maximum current value can be fixed via software with 5 mV resolution and the output voltage can not be programmed beyond this value.

Technical Specifications

No. of Channels

6

Polarity

Reversible

Output Voltage

2 ÷ 8 V (connector output)

Max. Output Current

16 A

Voltage Set/Monitor Resolution

10 mV

Current Set/Monitor Resolution

10 mA

VMAX hardware

2 ÷ 8 V

VMAX software

2 ÷ 8 V

VMAX software resolution

10 mV

Voltage Ripple

<20 mV pp on 10 μ F // 0.1 μ F 10Hz-15MHz

Voltage Monitor vs. Output Voltage Accuracy

max. ± 30 mV $\pm 0.3\%$ of reading

Voltage Set vs. Output Voltage Accuracy

max. ± 30 mV $\pm 0.3\%$ of reading

Current Monitor vs. Output Current Accuracy

± 0.05 A $\pm 2\%$ of reading

Current Set vs. Output Current Accuracy

± 0.05 A $\pm 2\%$ of reading

Load Regulation

- $\pm 0.3 \%$ (with sense wires)
- $\pm 2 \%$ (without sense wires)

Output Power (per Channel)

90 W

Test Set Up

- cable: length = 20~30m; diameter = 10mm (for both output and return) with sense wires connected
- test load: 250÷2000 W (nominal)
- load capacitance: 100 μ F electrolytic // 100 nF ceramic (// to the load)

Ordering Options

Code	Description
WE3016BXAAAA	A3016B - EASY3000 L.V. channels 8 V/9 A/90 W floating - Screw Conn. (6 ch)

Related Products

A3009H



12 Channel 14 V / 9 A / 45 W Power Supply Board

A3009B



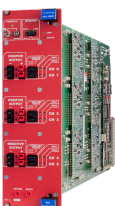
12 Channel 8 V / 9 A / 45 W Power Supply Board

A3009



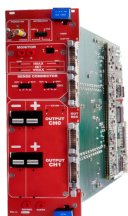
12 Channel 8 V / 9 A / 45 W Power Supply Board

A3006

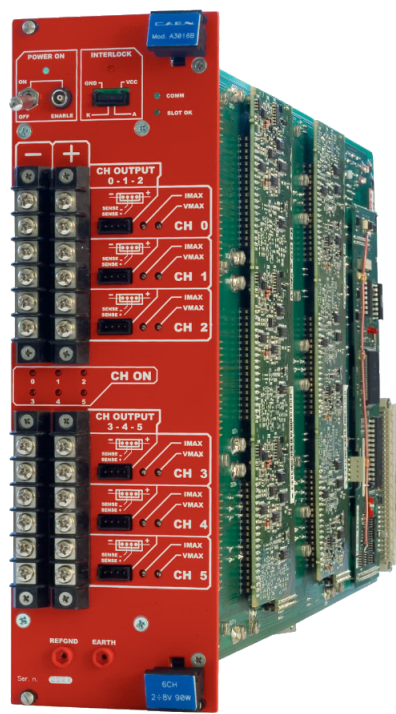


4 Positive and 2 Negative Ch 16 V / 6 A / 90 W Power Supply Board

A3050



2 Channel 8 V / 50 A / 300 W Power Supply Board



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